









LS 300x

Product Manual

English



















Foreword

Thank you for purchasing Aputure "Lighttorm" LS 300x.

The Aputure LS 300x is a Bi-color Point Source LED Light Fixture. We've taken all of your favorite features of the daylight-balanced 300d II and added Expanded Bi-color CCT control, making it the first Bowens Mount Bi-color LED that can be used with optical modifiers properly.

IMPORTANT SAFETY INSTRUCTIONS

When using this unit, basic safety precautions should always be followed, including the following:

- 1. Read and understand all instructions before using.
- 2. Close supervision is necessary when any fixture is used by or near children. Do not leave the fixture unattended while in use.
- Care must be taken as burns can occur from touching hot surfaces.
- 4. Do not operate the fixture if a cord is damaged, or if the fixture has been dropped or damaged, until it has been examined by qualified service personnel.
- 5. Position any power cables such that they will not be tripped over, pulled, or put into contact with hot surfaces.
- 6. If an extension cord is necessary, a cord with an amperage rating at least equal to that of the fixture should be used. Cords rated for less amperage than the fixture may overheat.
- 7. Always unplug the lighting fixture from the electrical outlet before cleaning and servicing, or when not in use. Never yank the cord to remove the plug from the outlet.

Detailed product manual for Light Storm can be found on www.aputure.com .

















- 8. Let the lighting fixture cool completely before storing.
- 9. To reduce the risk of electric shock, do not immerse this fixture in water or any other liquids.
- 10. To reduce the risk of fire or electric shock, do not disassemble this fixture. Contact cs@aputure.com or take it to qualified service personnel when service or repair work is required. Incorrect reassembly may cause electric shock when the lighting fixture is in use.
- 11. The use of an accessory attachment not recommended by the manufacturer may increase the risk of fire, electric shock, or injury to any persons operating the fixture.
- 12. Power this fixture by connecting it to a grounded outlet.
- 13. Please remove the protective cover before powering on the light.
- 14. Please remove the protection cover before using the reflector.
- 15. Please do not block the ventilation and do not look at the light directly when it is powered on.
- 16. Please do not place the LED lighting fixture near any liquids or other flammable objects.
- 17. Only use a dry microfiber cloth to clean the product.
- 18. Please have the product checked by an authorized service personnel agent if your product has a problem.
- 19. The malfunctions caused by unauthorized disassembly are not covered under the warranty.
- 20. We recommend only using the original Aputure cable accessories. Please note that our warranty for this product does not apply to any repairs required due to any malfunctions of unauthorized Aputure accessories, although you may request such repairs for a fee.















- 21. This product is certified by RoHS, CE, KC, PSE, and FCC. Please operate the product in full compliance with the operation standards. Please note that this warranty does not apply to repairs arising from malfunctions, although you may request such repairs on a chargeable basis.
- 22. The instructions and information in this manual are based on thorough, controlled company testing procedures. Further notice will not be given if the design or specifications change.

SAVE THESE INSTRUCTIONS

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try reorient or relocate the receiving antenna.















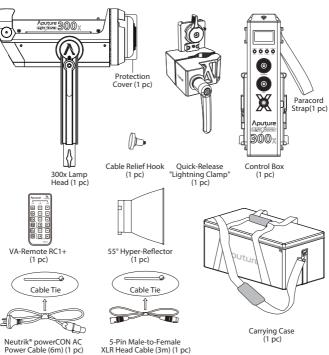
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

RF Warning Statement:

This device has been evaluated to meet general RF exposure requirements.

Check list

When you unbox the product, please make sure all the items listed below are included. Otherwise, please contact the seller immediately.













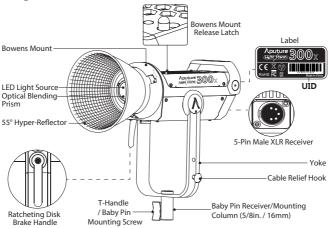




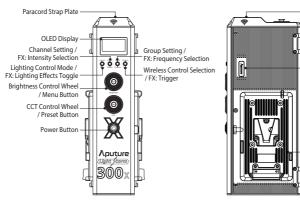


Product Details

1. Light



2. Controller box









-Antenna Box -Floor Stand

-USB Port

Plate

Ouick-Release

Battery Plate

Floor Stand

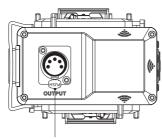
(*Antón Bauer or V-mount)



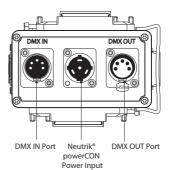




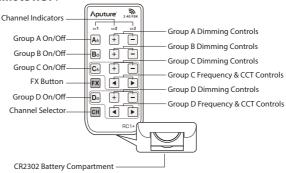








3. VA-Remote RC1+



Installations

1. Installing the cable relief hook

















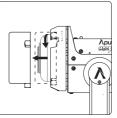




2. Attaching/detaching the protection cover

Pull back the retaining pin, rotate the cover clockwise, then detach the cover. To reattach the cover, insert it into the Bowens mount and rotate counterclockwise.



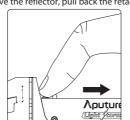


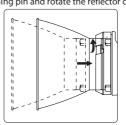
Notice: Always remove the protection cover prior to turning on the light. Always re-install the cover when packing

3. Attaching/detaching the Hyper-Reflector

To install the reflector, pull back the retaining pin, insert the reflector into the Bowens mount, and rotate it counterclockwise as shown in the following pictures.

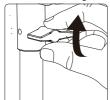
To remove the reflector, pull back the retaining pin and rotate the reflector clockwise.

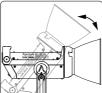




4. Setting up the Light

Mount the light onto a light stand, then fix it in place using the T-Handle/Mounting Screw on the Baby Pin Receiver/Mounting Column (5/8in. / 16mm). Then loosen/tighten the handbrake locking mechanism on the yoke to adjust the fixture's angle of tilt.

























5. Instructions for the Quick-Release "Lightning Clamp"

- 1) Clamp the Lightning Clamp onto a light stand.
- 2) To attach the control box, rotate the release lever to unlock the quick-release baseplate, then mount the control box onto the Lightning Clamp (the release lever will automatically spring back).
- 3) To remove the control box, grasp it firmly, then unlock the quick-release plate by turning the release lever, and detach the control box.



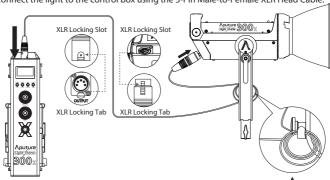
Specifications

Weight	670g / 1.48lbs	Sizes (L*W*H)	10.35x8.74x12.5cm / 4.07x3.44x4.92in
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^{*} The Quick-Release "Lightning Clamp" can clamp onto square or round pipe with a diameter between 2-5cm or 0.79-1.97in.

6. Connect the light to the control box

Connect the light to the control box using the 5-Pin Male-to-Female XLR Head Cable.



* Hang the cable from the head cable relief hook to manage and reduce tension on the cable.









^{*} Disconnect the XLR head cable by pushing down on the locking tabs on the female XLR connectors, then remove the cable.

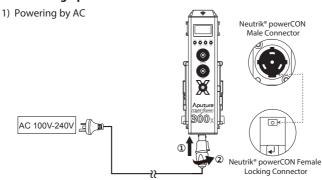






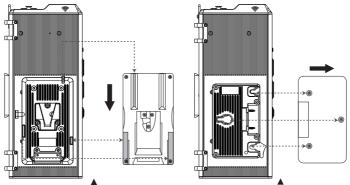


7. Powering up the controller



To disconnect the Neutrik® powerCon cable, pull back on the yellow release tab on the cable connector, and rotate the connector counterclockwise.

2) Powering by Batteries



V-Mount Battery

Anton Bauer Battery

- * Batteries: Voltage 12~16.8V; Recommended > 15A continuous discharge.

 *The LS 300x can be operated using a single battery for up to half of the ∑xture's maximum output. Pluggingthwlight in or using two batteries allows you to utilize the light's full output. When powering the light from a single haitstayl yibe m battery on the right side of the of the control box, or the light will not turn on.

 *Po not use non-14.4v batteries (batteries with voltages outside of the 12-16.8V range). Using higher voltage batteries v
- damage the power supply and the lighting \(\subseteq xture. \)
- *Only use batteries that support the necessary continuous current discharge speci⊠cations mentioned above. If non-co-batteries are used, the batteries will enter a protection state and the lighting ⊠xture will not operate as intended.
- * Customers can choose V-Mount or A-Mount battery plates for their control boxes upon purchase according to their nee











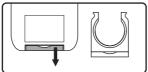








8. Insert the button battery to power VA-Remote RC1+



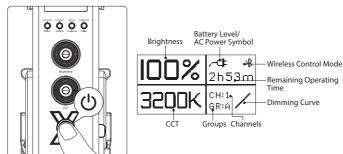


Remove battery compartment

Install button battery and insert it into the VA-Remote RC1+

Operations

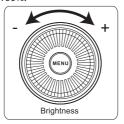
1. Press the power button to turn the light on and off



* Default: Channel 1, Group A

2. Manual Control

1) Rotate the Brightness Control Wheel to adjust the intensity of the light from 0-100%.















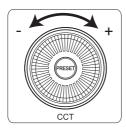








2) Rotate the CCT Control Wheel to adjust the color temperature of the light from 2700K-6500K.





3) Lighting FX Mode

Press and hold the Effects button for 2 seconds to activate Lighting FX mode, then short press the Effects button to toggle between Paparazzi, Fireworks, Faulty Bulb, Lightning, TV, Pulsing, Strobe, Explosion, Fire, etc.

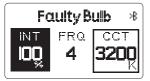
a. Paparazzi Effect



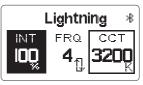
b. Fireworks Effect*



c. Faulty Bulb Effect



d. Lightning Effect**



^{*} As of writing this the Fireworks effect worked in a CCT range presets include three choices of 3200K/5600K/Random.









^{**} When controlling the lightning effect, short press the Trigger button to single trigger the lighting effect; long press the Trigger button to enter the Lightning Cycle Mode.









e. TV Effect*



f. Pulsing Effect



g. Strobe Effect



h. Explosion Effect**



i. Fire Effect***



- * As of writing this the TV effect worked in CCT range presets and you cannot set a fixed base CCT.
- ** When controlling the explosion effect, short press the Trigger button to single trigger the lighting effect.
- ***As of writing this the Fire effect worked in CCT range presets and you cannot set a fixed base CCT.

When in Lighting FX mode, short press the "Intensity" button to enter Intensity Adjustment Mode. Then rotate the Brightness Control Wheel to adjust the intensity from 10%-100% as displayed on the screen.

















When in Lighting FX mode, short press the "Frequency" button to enter Frequency Adjustment Mode. Then rotate the Brightness Control Wheel to adjust the frequency of the effect from 1 to 10 and R (Random) as displayed on the screen.



When in Lighting FX mode, rotate the CCT Control Wheel to adjust the base CCT of the lighting effect from 2700K to 6500K as displayed on the screen.

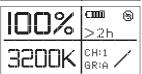


^{*} As of writing, you cannot set a fixed base CCT for certain effects, such as: Fireworks, TV, and Fire.

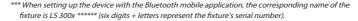
4) Wireless Connectivity Modes

Press the Wireless/Trigger button in order to switch between 2.4GHz Wireless Remote Control, Bluetooth SIG Mesh Sidus Link App Control***, and no wireless control.





^{100% | 3200}K | 3200K |











^{**} If the light is powered off, upon turning on again, the light will resume its last saved setting.









5) Press the MENU button to enter the system menu interface, as shown below.

Output Mode
DMX Mode
Dimming Curve
Fan Mode

Studio Mode BT Reset Language USB Mode

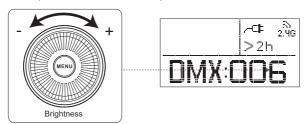
Exit	
Ver.I.0	

6) DMX mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select DMX mode and press the MENU button again to enter DMX mode.

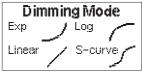


When in DMX mode, rotate the brightness control wheels to set the device's DMX channel. Then press the MENU button to take you back to the Menu interface.



7) Dimming curve mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select Dimming Curve, and press the MENU button again to enter the dimming curve selection menu. Using the wheel to choose from exponential (Exp), logarithmic (Log), S-Curve, or linear dimming curves, and press the MENU button to make your selection.



-14-











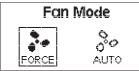






8) Fan mode

Press the MENU button to enter the system menu, rotate the dimming wheel to select Fan Mode, and press the MENU button again to enter Fan Mode. Use the wheel to select between Force* and Auto, then press the MENU button to confirm your selection.



^{*} In "Force Mode" the fan will continuously spin at its maximum speed. In "Auto Mode" the fan will only begin spinning when the light has reached 45°C.

9) Studio mode

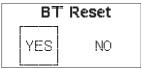
Press the MENU button to enter the system menu, rotate the dimming wheel to select Studio Mode, and press the MENU button again to enter the Studio Mode** menu. Once in the menu, use the wheel to choose between "YES"*** or "NO" and press the MENU button to confirm your selection.

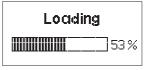


^{**} When Studio Mode is active, the light will turn on as soon as it receives power, without having to press the power button.

10) Bluetooth reset

(1) Press the MENU button to enter the system menu, rotate the dimming wheel to select BT Reset. Press the MENU button again to enter the Bluetooth Menu. Use the wheel to select "YES" to reset the Bluetooth pairing (the pop-up window displays the current reset progress and is completed within 5 seconds); or select "NO" to return to the previous menu.





(2) After resetting the light's Bluetooth connection, your mobile phone or tablet will be able to connect to and control the light****.

(3) If the Bluetooth Reset fails, a [Reset Failed] screen will pop-up, and the light will return to Bluetooth mode after 2 seconds.

**** The light must be connected to your mobile device using the Sidus Link mobile application, and not via your device's typical Bluetooth connection menu.









^{***} Studio Mode is active as the factory default.









11) Language

Press the MENU button to enter the system menu, rotate the dimming wheel to select Language, and press the MENU button again to enter the Language menu*. Use the wheel to select from the available languages. Initial languages include "English" and "Chinese".



^{*} The factory default language is English.

12) USB Mode

- (1) The control box has a built-in USB port for firmware updates (for both the control box and lamp head). Insert a compatible USB* flash drive into the USB port.
- (2) To update the light's firmware, press the MENU button to enter the system menu, rotate the dimming wheel to select USB Mode, and press the MENU button again to enter the Update menu. Use the wheel to select "YES" or "NO". If a USB flash drive containing a firmware update is mounted in the USB port, the screen will display an update progress bar**. If you choose "NO", press MENU button then it will return the menu interface.
- (3) If a USB flash drive is not inserted into the USB port of the flash drive does not contain a firmware upgrade file, entering the Update menu and choosing "YES" will return you to the system menu interface.





^{*} Only FAT16 and FAT32 storage formats can be used for firmware updates. Incompatible formats will result in the screen displaying a format error and will return to the main menu.

13) OTA Mode

You can also do an OTA wireless firmware update using the Sidus Link mobile app.









^{**} DO NOT unplug the light or the USB flash drive during the update process. In the case of an unexpected power failure, DO NOT remove the USB flash drive. When the power is restored, the fixture will automatically resume the update process. After successfully updating the firmware, the fixture will automatically restart.







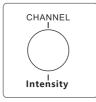


3. Remote Control

You can control the LS 300x from any channel or group configuration.

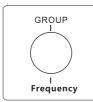
- * Light Storm lights have three channels (1/2/3) and four groups (A/B/C/D).
- * Only groups "C" or "D" can be used to control brightness, CCT and lighting e⊠ects, w groups "A" and "B" can only be used to control brightness.
- 1) Configuring channel and group settings on the control box $% \left\{ 1\right\} =\left\{ 1\right$

Press the CHANNEL button to toggle between channels 1, 2, & 3.





Press the GROUP button to toggle between groups A, B, C, & D.





2) Configuring channel settings on the remote $\,$



Press the CH button to toggle between channels 1, 2, and 3)



" ch2 " indicator lights











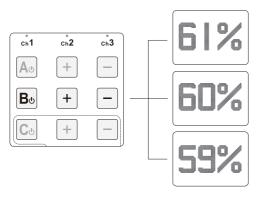






3) Adjusting brightness

Press A/B/C/D to toggle the lights on or off, press ($\frac{1}{2}$ / $\frac{1}{2}$) to adjust the brightness of the light from 0 to 100% accordingly.



^{*} This remote will not work when the light is in DMX mode.

4) CCT Control

In normal light control mode, press the () buttons to adjust the light's output CCT.

In FX Mode, press the (FX+ 4/) buttons to adjust the lights output CCT.







^{**} The remote control will only control the operation of the light when the fixture is in 2.4Ghz Wireless Control Mode.

^{*} The remote control can only be used to adjust CCT if the lights are in groups C or D.







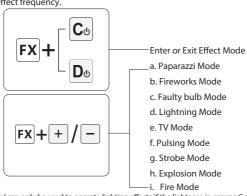


5) FX Control

Press the $(FX + C_{\odot}/D_{\odot})$ button to enter or exit lighting effect mode. Press the

(FX + + / -) to toggle between different effects.

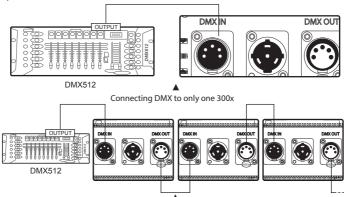
Press the (+/-) buttons to adjust the output of the light. Press the (4/) buttons to toggle the effect frequency.



^{*} The remote control can only be used to operate lighting effects if the lights are in groups C or D.

4. Connecting to DMX

1) Connect a standard DMX controller













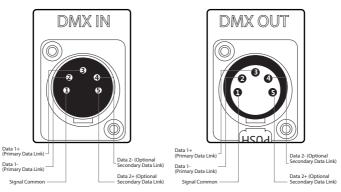








* The DMX interface schematic is shown in the pictures below:



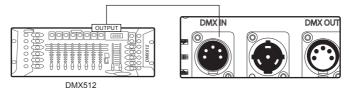
2) Channel Selection

In DMX mode, match the channel of your DMX controller with the light, and then adjust accordingly.

- * The default DMX channel is "001".
- ** The range of DMX channels is 1 to 512.

5. Controlling Device Via DMX

1) Connect the DMX controller's OUTPUT to the 300x's controller INPUT as shown in the figure below.

















2) DMX Chart

DM		Values / Functions (Channels)
Channel	Value	Function
1		Dimmer
•	0-255	Intensity 0 to 100%
		CCT Control
	0-5	2700K
	6-10	2800K
	11-15	2900K
	16-20	3000K
	21-25	3100K
	26-30	3200K
	31-35	3300K
	36-40	3400K
	41-45	3500K
2	46-50	3600K
	51-55	3700K
	56-60	3800K
	61-65	3900K
	66-70	4000K
	71-75	4100K
	76-80	4200K
	81-85	4300K
	86-90	4400K
	91-95	4500K
	96-100	4600K

	101-105	4700K
	106-110	4800K
	111-115	4900K
	116-120	5000K
	121-126	5100K
	126-130	5200K
	131-135	5300K
	136-140	5400K
2	141-145	5500K
2	146-150	5600K
	151-155	5700K
	156-160	5800K
	161-165	5900K
	166-170	6000K
	171-175	6100K
	176-180	6200K
	181-185	6300K
	186-190	6400K
	191-195	6500K
	196-255	Undefined
		Frequency Control
	0-19	1
	20-39	2
	40-59	3
	60-79	4

















	80-99	5
	100-119	6
	120-139	7
3	140-159	8
	160-179	9
	180-199	10
	200-219	R
	220-255	Undefined
		Mode Selection
4	0-127	Manual Mode
	128-255	FX Mode
		FX Control
	0-19	Paparazzi
	20-39	Fireworks
•	40-59	Faulty Bulb

	60-79	Lightning
	80-99	TV
5	100-119	Pulsing
3	120-139	Strobe
	140-159	Explosion
	160-178	Fire
	180-255	Undefined
		IN Lightning mode
	0	Start Point
	1-127	Single Trigger
6	128-255	Cycle Mode
0		IN Explosion mode
	0	Start Point
	1-127	Single Trigger
	128-255	Undefined

^{*} In DMX mode, intensity, CCT, FX frequency and lighting effects can only be controlled by a DMX controller.

6. Using the Sidus Link APP

You can download the Sidus Link app from the iOS App Store or Google Play Store for enhance the functionality of the light. Please visit sidus.link/app/help for more details regarding how to use the app to control your Aputure lights.











^{**} When controlling multiple 300x lights independently (i.e., A and B), offset each light by 6 channels. If you set light A at DMX 001, set light B at DMX 007, to control A and B separately on the DMX controller.









Specifications

Operati	ng Current	3.5A	Power Consumption	350W maximum
Powe	er Supply	AC 100 ~ 240V 50/60Hz	Cooling Mode	Active Cooling
-	TLCI	≥96	CQS	≥95
	CRI	≥96	Color Temperature	2700K~6500K
Radio F	requency	2.4GHz	Channels	1/2/3
Gr	oups	A/B/C/D	Remote Ability	≤100m
Battery r	equirement	12V-16.8V ≽15A	APP Control Type	Bluetooth
	Light	29.84*21.56*34.45c	m / 11.75*8.49*13.56in	
Sizes (L*W*H)	Controller box Anton Bauer Battery	27.86*12.67*8.73cn	n / 10.97*4.99*3.44in	
	Controller box (V-Mount)	27.86*12.67*9.67cn	n / 10.97*4.99*3.81in	

















Photometrics

ССТ	Distance	1m	3m	5m
	Bare Bulb	474 (fc)	54 (fc)	20 (fc)
3200K	bare builb	5100 (lux)	580 (lux)	220 (lux)
3200K	Hyper-Reflector	1505 (fc)	121 (fc)	42 (fc)
	Tiyper-nellector	16200 (lux)	1300 (lux)	450 (lux)
	Bare Bulb	697 (fc)	74 (fc)	32 (fc)
4300K	Bare Buib	7500 (lux)	800 (lux)	350 (lux)
43001	Hyper-Reflector	2257 (fc)	195 (fc)	65 (fc)
	пурег-кенестог	24300 (lux)	2100 (lux)	700 (lux)
	Bare Bulb	585 (fc)	65 (fc)	23 (fc)
5500K	bare builb	6300 (lux)	700 (lux)	250 (lux)
330011	Hyper-Reflector	1904 (fc)	158 (fc)	51 (fc)
	- Typer-netiector	20500 (lux)	1700 (lux)	550 (lux)

^{*} This is an averaged result, the number might be slightly di⊠erent on each light.

Trademarks

Bowens is a trademark registered by Bowens in China and other countries. Anton Bauer is a trademark registered by Anton Bauer in the US and other countries. Neutrik® is a trademark registered by Neutrik® in the US and other countries.









Buyer Add

Franchiser Seal







Serial No.	GUAKAN I EE CAKU
Serial No.	
Item Name	
Purchase Date	
Buyer Name	
Buyer Phone	

Aputure Imaging Industries Co., Ltd.

Add: F/3, Building 21, Longiun Industrial Estate, Heping West Road, Shenzhen, Guangdong

Inspection: Qualified

Service Warranty (EN)

date of purchase. For more details of warranty visit www.aputure.com from defects in material and workmanship for a period of one (1) year after the Aputure Imaging Industries Co., Ltd. warrants the original consumer purchaser

Important:

date, serial No. of the product. This information is required for warranty Keep your original sales receipt. Be sure the dealer has written on it the service.

This warranty does not cover:

- Damage that is the result of misuse, abuse, accident (including but equipment for which it was not intended. maladjusted associated equipment, or the use of the product with not limited to damage by water), faulty connection, detective or
- date of purchase. Cosmetic damage caused by improper handling is Cosmetic defects that appear more than thirty (30) days after the
- will service it. Damage that occurs while the product is being shipped to whoever also excluded.

This warranty is void if:

- The product identification or serial No. label is removed or defaced in
- or an authorized Aputure dealer or service agency. any way.

 The product is serviced or repaired by any one other than Aputure

Add: F/3, Building 21, Longjun industrial estate Aputure Imaging Industries Co., Ltd HePing West Road, Shenzhen, Guangdong

E-MAIL: cs@aputure.com

Sales Contact: (86)0755-83285569-613





